ABSTRACT

This invention describes blood treating material having the capacity to selectively remove endotoxin and cytokine inducing substances from blood or plasma by extracorporeal adsorption for therapeutic septic shock treatment. The endotoxin adsorption ligands of the invention are oligopeptides synthesized from amino acids having a pk > 7.2 such as arginine, lysine or histidine, using a polycondensation step such that the resultant oligopeptides exhibit a high degree of polydispersity. Also provided are methods and devices using an adsorbent having a polydisperse oligopeptide of the invention immobilized on a solid state support medium for removing endotoxin from the blood of human or animal subject.